

BACKGROUND NOTE Each year WHO and UNICEF jointly review reports submitted by Member States regarding national immunization coverage, finalized survey reports as well as data from published and grey literature. Based on these data, with due consideration to potential biases and the views of local experts, WHO and UNICEF attempt to distinguish between situations where available empirical data accurately reflect immunization system performance and those where the data are likely compromised and present a misleading view of coverage.

WHO and UNICEF estimates are country-specific; that is to say, each country's data are reviewed individually, and data are not borrowed from other countries in the absence of data. Estimates are not based on ad hoc adjustments to reported data; in some instances empirical data are available from a single source, usually the nationally reported coverage data. In cases where no data are available for a given country/vaccine/year combination, data are considered from earlier and later years and interpolated to estimate coverage for the missing year(s). In cases where data sources are mixed and show large variation, an attempt is made to identify the most likely estimate with consideration of the possible biases in available data. For methods see:

* Burton et al. 2009. Bull World Health Organ. * Burton et al. 2012. PLoS One.
* Brown et al. 2013. Open Pub Health Journal. * Danovaro-Holliday et al. 2021. Gates Open Res.

DATA SOURCES

ADMINISTRATIVE coverage: Reported by national authorities and based on aggregated administrative reports from health service providers on the number of vaccinations administered during a given period (numerator data) and reported target population data (denominator data). May be biased by inaccurate numerator and/or denominator data.

OFFICIAL coverage: Estimated coverage reported by national authorities that reflects their assessment of the most likely coverage based on any combination of administrative coverage, survey-based estimates or other data sources or adjustments. Approaches to determine OFFICIAL coverage may differ across countries.

SURVEY coverage: Based on estimated coverage from population-based household surveys among children aged 6-11, 12-23 or 24-35 months following a review of survey methods and results. Information is based on the combination of vaccination history from documented evidence or caregiver recall. Survey results are considered for the appropriate birth cohort based on data collection period.

ABBREVIATIONS AND DEFINITIONS

BCG: percentage of births who received one dose of Bacillus Calmette Guerin vaccine.

DTP1 / DTP3: percentage of surviving infants who received the 1st / 3rd dose, respectively, of diphtheria and tetanus toxoid with pertussis containing vaccine.

POL3: percentage of surviving infants who received the 3rd dose of polio containing vaccine. May be either oral or inactivated polio vaccine.

IPV1: percentage of surviving infants who received at least one dose of inactivated polio vaccine. In countries utilizing an immunization schedule recommending either (i) a primary series of three doses of oral polio vaccine (OPV) plus at least one dose of IPV where OPV is included in routine immunization and/or campaign or (ii) a sequential schedule of IPV followed by OPV, WHO and UNICEF estimates for IPV1 reflect coverage with at least one routine dose of IPV among infants < 1 year of age. For countries utilizing IPV containing vaccine only, i.e., no recommended dose of OPV, WHO and UNICEF estimate for IPV1 corresponds to coverage for the 1st dose of IPV.

Production of IPV coverage estimates, which begins in 2015, results in no change of the estimated coverage levels for the 3rd dose of polio (POL3). For countries recommending routine immunization with a primary series of three doses of IPV alone, WHO and UNICEF estimated POL3 coverage is equivalent to estimated coverage with three doses of IPV. For countries with a sequential schedule, estimated POL3 coverage is based on that for the 3rd dose of polio vaccine regardless of vaccine type.

IPV2: percentage of surviving infants who received a 2nd dose of inactivated polio vaccine. IPV2 coverage estimates produced for OPV using countries.

MCV1: percentage of surviving infants who received the 1st dose of measles containing vaccine. In countries where the national schedule recommends the 1st dose of MCV at 12 months or later based on the epidemiology of disease in the country, coverage estimates reflect the percentage of children who received the 1st dose of MCV as recommended.

MCV2: percentage of children who received the 2nd dose of measles containing vaccine according to the nationally recommended schedule.

RCV1: percentage of surviving infants who received the 1st dose of rubella containing vaccine. Coverage estimates are based on WHO and UNICEF estimates of coverage for the dose of measles containing vaccine that corresponds to the first measles-rubella combination vaccine. Nationally reported coverage of RCV is not taken into consideration in the production of the estimate.

HEPB3: percentage of births which received a dose of hepatitis B vaccine within 24 hours of delivery. Estimates of hepatitis B birth dose coverage are produced only for countries with a universal birth dose policy. Estimates are not produced for countries that recommend a birth dose to infants born to HEPB virus-infected mothers only or where there is insufficient information to determine whether vaccination is within 24 hours of birth.

HEPB3: percentage of surviving infants who received the 3rd dose of hepatitis B containing vaccine following the birth dose.

HIB3: percentage of surviving infants who received the 3rd dose of Haemophilus influenzae type b containing vaccine.

ROTAC: percentage of surviving infants who received the final recommended dose of rotavirus vaccine, which can be either the 2nd or the 3rd dose depending on the vaccine.

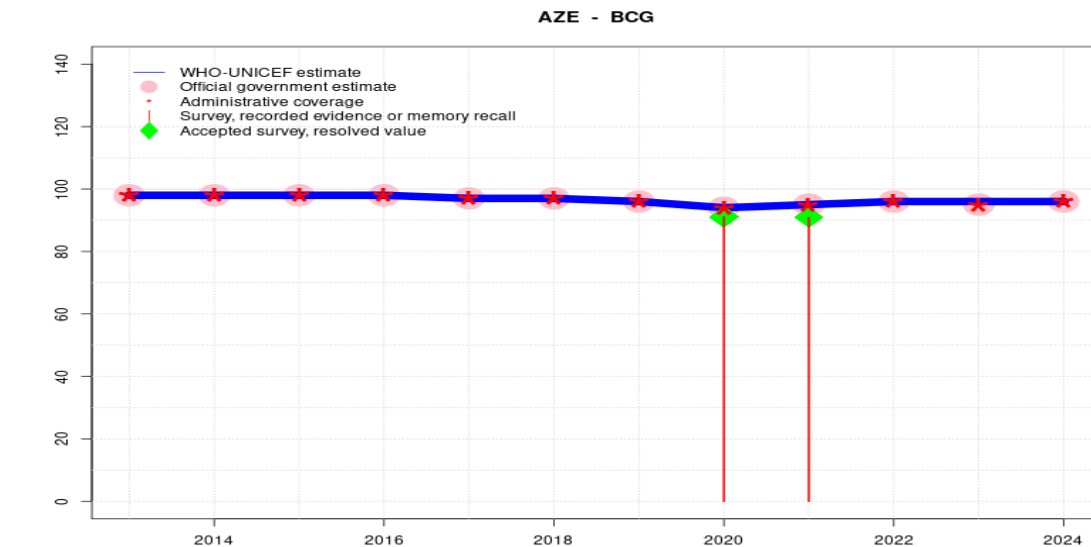
PCV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect the percentage of surviving infants who received two doses of PCV prior to the 1st birthday if coverage for the booster dose is not reported.

YFV: percentage of surviving infants who received one dose of yellow fever vaccine in countries where YFV is part of the national immunization schedule for children or is recommended in at risk areas; coverage estimates are annualized for the entire cohort of surviving infants.

MENGA: percentage of children who received one dose of meningococcal A conjugate vaccine. MENGA coverage estimates produced for countries in the meningitis belt of sub-Saharan Africa.

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Azerbaijan - BCG



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	98	98	98	98	97	97	96	94	95	96	96	96
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	98	98	98	98	97	97	96	94	95	96	95	96
Administrative	98	98	98	98	97	97	96	94	95	96	95	96
Survey	-	-	-	-	-	-	-	91	91	-	-	-

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

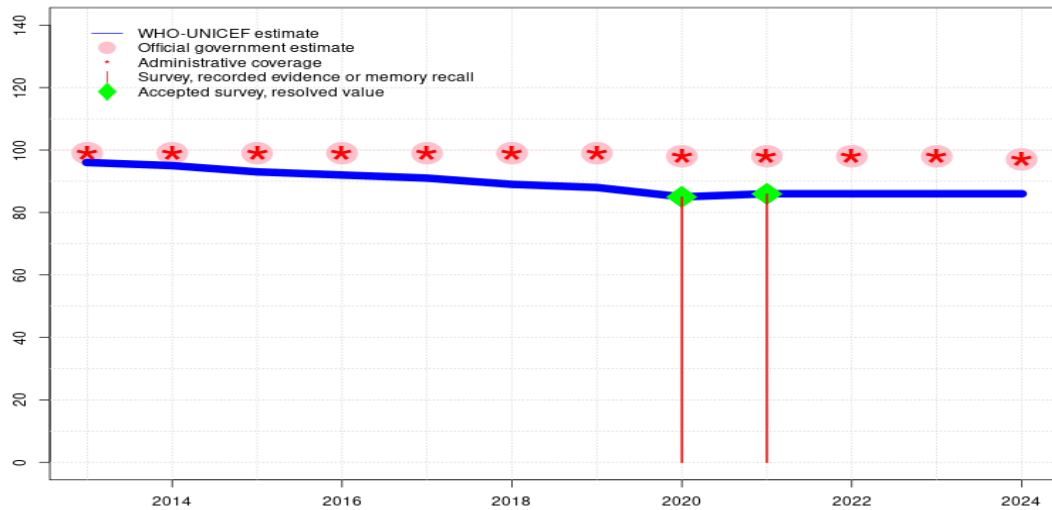
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate based on extrapolation from data reported by national government. Reported data excluded. Estimate challenged by: D-
- 2023: Estimate based on extrapolation from data reported by national government. Reported data excluded. Unexplained decline of 9 percent in reported target population compared to 2022 that is accompanied by similar unexplained decline in reported number of doses administered. Estimate of 96 percent changed from previous revision value of 95 percent. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Unexplained increase of 11 percent in the reported target population between 2021 and 2022. Estimate challenged by: D-
- 2021: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 91 percent based on 1 survey(s). Reported data excluded. A decline in reported number of doses administered between 2020 and 2021 is not reflected in reported coverage. Reported target population has declined 32 percent between 2016 and 2021. Estimate challenged by: D-
- 2020: Estimate informed by reported data supported by survey. Survey evidence of 91 percent based on 1 survey(s). WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data. Estimate challenged by: D-
- 2017: Estimate informed by reported data. Estimate challenged by: D-
- 2016: Estimate informed by reported data. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Estimate challenged by: D-
- 2014: Estimate informed by reported data. Estimate challenged by: D-
- 2013: Estimate informed by reported data. National programme revised target population estimates during 2013. GoC=Assigned by working group. GoC assigned to maintain consistency across vaccines.

Azerbaijan - HEPBB

AZE - HEPBB



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	96	95	93	92	91	89	88	85	86	86	86	86
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	99	99	99	99	99	99	99	98	98	98	98	97
Administrative	99	99	99	99	99	99	99	98	98	98	98	97
Survey	-	-	-	-	-	-	-	85	86	-	-	-

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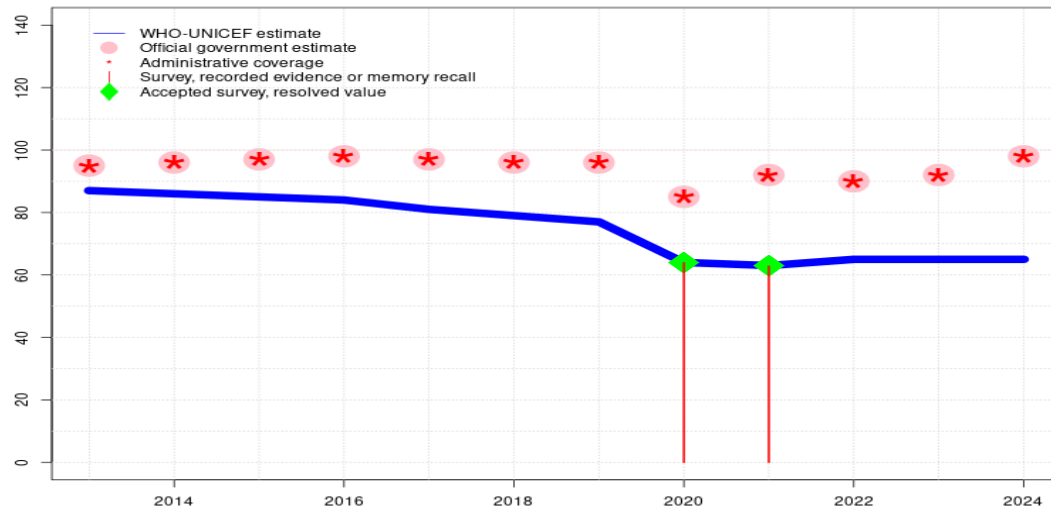
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Description:

- 2024: Reported data calibrated to 2021 levels. Reported data excluded. Estimate challenged by: R-
- 2023: Reported data calibrated to 2021 levels. Reported data excluded. Unexplained decline of 9 percent in reported target population compared to 2022 that is accompanied by similar unexplained decline in reported number of doses administered. Estimate of 86 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2022: Reported data calibrated to 2021 levels. Estimate of 86 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2021: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 86 percent based on 1 survey(s). Reported data excluded. A decline in reported number of doses administered between 2020 and 2021 is not reflected in reported coverage. Reported target population has declined 32 percent between 2016 and 2021. Estimate of 86 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 85 percent based on 1 survey(s). WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Estimate of 85 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2019: Reported data calibrated to 2012 and 2020 levels. Estimate of 88 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2018: Reported data calibrated to 2012 and 2020 levels. Estimate of 89 percent changed from previous revision value of 99 percent. Estimate challenged by: R-
- 2017: Reported data calibrated to 2012 and 2020 levels. Estimate of 91 percent changed from previous revision value of 99 percent. Estimate challenged by: R-
- 2016: Reported data calibrated to 2012 and 2020 levels. Estimate of 92 percent changed from previous revision value of 99 percent. Estimate challenged by: R-
- 2015: Reported data calibrated to 2012 and 2020 levels. Estimate of 93 percent changed from previous revision value of 99 percent. Estimate challenged by: R-
- 2014: Reported data calibrated to 2012 and 2020 levels. Estimate of 95 percent changed from previous revision value of 99 percent. Estimate challenged by: R-
- 2013: Reported data calibrated to 2012 and 2020 levels. National programme revised target population estimates during 2013. Estimate of 96 percent changed from previous revision value of 99 percent. Estimate challenged by: D-R-

Azerbaijan - DTP1

AZE - DTP1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	87	86	85	84	81	79	77	64	63	65	65	65
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	95	96	97	98	97	96	96	85	92	90	92	98
Administrative	95	96	97	98	97	96	96	85	92	90	92	98
Survey	-	-	-	-	-	-	-	64	63	-	-	-

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- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
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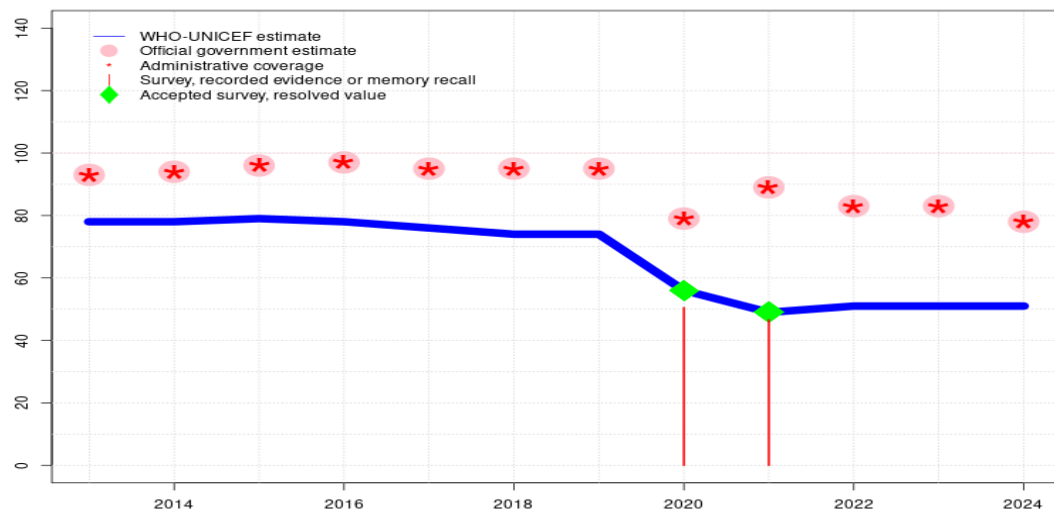
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Description:

- 2024: Reported data calibrated to 2021 levels. Reported data excluded. Estimate challenged by: R-
- 2023: Reported data calibrated to 2021 levels. Reported data excluded. Unexplained decline of 25 percent in reported target population compared to 2022 that is accompanied by similar decline in reported number of doses administered. Estimate of 65 percent changed from previous revision value of 92 percent. Estimate challenged by: R-
- 2022: Reported data calibrated to 2021 levels. Unexplained increase of 11 percent in the reported target population between 2021 and 2022. Estimate of 65 percent changed from previous revision value of 90 percent. Estimate challenged by: D-R-
- 2021: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 63 percent based on 1 survey(s). Reported data excluded. A decline in reported number of doses administered between 2020 and 2021 is not reflected in reported coverage. Reported target population has declined 32 percent between 2016 and 2021. Estimate of 63 percent changed from previous revision value of 92 percent. Estimate challenged by: R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 64 percent based on 1 survey(s). WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Decline in reported coverage is unexplained by country but aligns with COVID-19 pandemic service disruptions. Estimate of 64 percent changed from previous revision value of 85 percent. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2010 and 2020 levels. Estimate of 77 percent changed from previous revision value of 96 percent. Estimate challenged by: R-S-
- 2018: Reported data calibrated to 2010 and 2020 levels. Estimate of 79 percent changed from previous revision value of 96 percent. Estimate challenged by: R-S-
- 2017: Reported data calibrated to 2010 and 2020 levels. Estimate of 81 percent changed from previous revision value of 97 percent. Estimate challenged by: R-
- 2016: Reported data calibrated to 2010 and 2020 levels. Estimate of 84 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2015: Reported data calibrated to 2010 and 2020 levels. Estimate of 85 percent changed from previous revision value of 97 percent. Estimate challenged by: R-
- 2014: Reported data calibrated to 2010 and 2020 levels. Estimate of 86 percent changed from previous revision value of 96 percent. Estimate challenged by: R-
- 2013: Reported data calibrated to 2010 and 2020 levels. National programme revised target population estimates during 2013. Estimate of 87 percent changed from previous revision value of 95 percent. Estimate challenged by: R-

Azerbaijan - DTP3

AZE - DTP3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	78	78	79	78	76	74	74	56	49	51	51	51
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	93	94	96	97	95	95	95	79	89	83	83	78
Administrative	93	94	96	97	95	95	95	79	89	83	83	78
Survey	-	-	-	-	-	-	-	51	47	-	-	-

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
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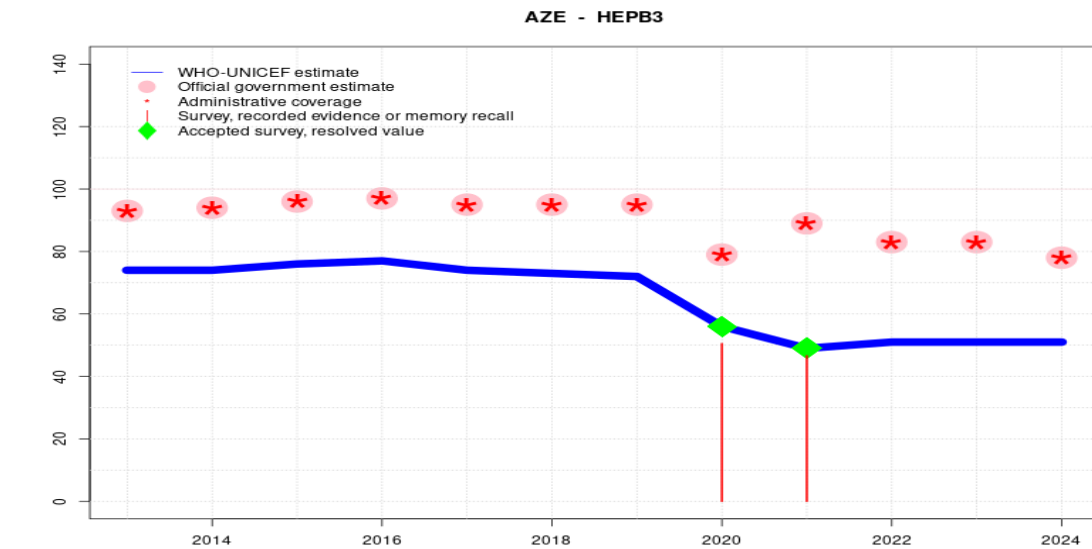
Description:

- 2024: Reported data calibrated to 2021 levels. Reported data excluded. Admin data reported for 2024 suggest a substantial proportion of delayed or catch-up vaccination, with about 12 percent third doses administered after the first year of life. Estimate challenged by: R-
- 2023: Reported data calibrated to 2021 levels. Reported data excluded. Unexplained decline of 25 percent in reported target population compared to 2022 that is accompanied by similar decline in reported number of doses administered. Estimate of 51 percent changed from previous revision value of 83 percent. Estimate challenged by: R-
- 2022: Reported data calibrated to 2021 levels. Unexplained increase of 11 percent in the reported target population between 2021 and 2022. Estimate of 51 percent changed from previous revision value of 83 percent. Estimate challenged by: D-R-
- 2021: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 49 percent based on 1 survey(s). Azerbaijan Multiple Indicator Cluster Survey 2023 record or recall results of 47 percent modified for recall bias to 49 percent based on 1st dose record or recall coverage of 63 percent, 1st dose record only coverage of 57 percent and 3rd dose record only coverage of 44 percent. Reported data excluded. A decline in reported number of doses administered between 2020 and 2021 is not reflected in reported coverage. Reported target population has declined 32 percent between 2016 and 2021. Estimate of 49 percent changed from previous revision value of 89 percent. Estimate challenged by: D-R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 56 percent based on 1 survey(s). Azerbaijan Multiple Indicator Cluster Survey 2023 record or recall results of 51 percent modified for recall bias to 56 percent based on 1st dose record or recall coverage of 64 percent, 1st dose record only coverage of 57 percent and 3rd dose record only coverage of 50 percent. WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Decline in reported coverage is unexplained by country but aligns with COVID-19 pandemic service disruptions. Estimate of 56 percent changed from previous revision value of 79 percent. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2010 and 2020 levels. Estimate of 74 percent changed from previous revision value of 94 percent. Estimate challenged by: R-S-
- 2018: Reported data calibrated to 2010 and 2020 levels. Estimate of 74 percent changed from previous revision value of 95 percent. Estimate challenged by: R-S-
- 2017: Reported data calibrated to 2010 and 2020 levels. Estimate of 76 percent changed from previous revision value of 95 percent. Estimate challenged by: R-
- 2016: Reported data calibrated to 2010 and 2020 levels. Estimate of 78 percent changed from previous revision value of 97 percent. Estimate challenged by: R-
- 2015: Reported data calibrated to 2010 and 2020 levels. Estimate of 79 percent changed from previous revision value of 96 percent. Estimate challenged by: R-
- 2014: Reported data calibrated to 2010 and 2020 levels. Estimate of 78 percent changed from

Azerbaijan - DTP3

previous revision value of 94 percent. Estimate challenged by: R-
2013: Reported data calibrated to 2010 and 2020 levels. National programme revised target population estimates during 2013. Estimate of 78 percent changed from previous revision value of 93 percent. Estimate challenged by: R-

Azerbaijan - HEPB3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	74	74	76	77	74	73	72	56	49	51	51	51
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	93	94	96	97	95	95	95	79	89	83	83	78
Administrative	93	94	96	97	95	95	95	79	89	83	83	78
Survey	-	-	-	-	-	-	-	51	47	-	-	-

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Description:

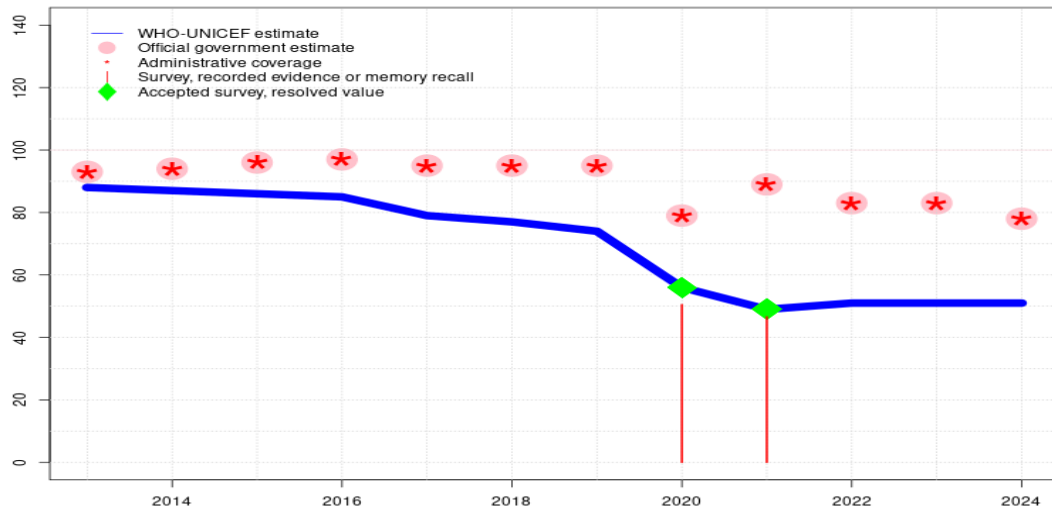
- 2024: Reported data calibrated to 2021 levels. Reported data excluded. Admin data reported for 2024 suggest a substantial proportion of delayed or catch-up vaccination, with about 12 percent third doses administered after the first year of life. Estimate challenged by: R-
- 2023: Reported data calibrated to 2021 levels. Reported data excluded. Unexplained decline of 25 percent in reported target population compared to 2022 that is accompanied by similar decline in reported number of doses administered. Estimate of 51 percent changed from previous revision value of 83 percent. Estimate challenged by: R-
- 2022: Reported data calibrated to 2021 levels. Unexplained increase of 11 percent in the reported target population between 2021 and 2022. Estimate of 51 percent changed from previous revision value of 83 percent. Estimate challenged by: D-R-
- 2021: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 49 percent based on 1 survey(s). Azerbaijan Multiple Indicator Cluster Survey 2023 record or recall results of 47 percent modified for recall bias to 49 percent based on 1st dose record or recall coverage of 63 percent, 1st dose record only coverage of 57 percent and 3rd dose record only coverage of 44 percent. Reported data excluded. A decline in reported number of doses administered between 2020 and 2021 is not reflected in reported coverage. Reported target population has declined 32 percent between 2016 and 2021. Estimate of 49 percent changed from previous revision value of 89 percent. Estimate challenged by: D-R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 56 percent based on 1 survey(s). Azerbaijan Multiple Indicator Cluster Survey 2023 record or recall results of 51 percent modified for recall bias to 56 percent based on 1st dose record or recall coverage of 64 percent, 1st dose record only coverage of 57 percent and 3rd dose record only coverage of 50 percent. WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Decline in reported coverage is unexplained by country but aligns with COVID-19 pandemic service disruptions. Estimate of 56 percent changed from previous revision value of 79 percent. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2010 and 2020 levels. Estimate of 72 percent changed from previous revision value of 94 percent. Estimate challenged by: D-R-S-
- 2018: Reported data calibrated to 2010 and 2020 levels. Estimate of 73 percent changed from previous revision value of 95 percent. Estimate challenged by: R-S-
- 2017: Reported data calibrated to 2010 and 2020 levels. Estimate of 74 percent changed from previous revision value of 95 percent. Estimate challenged by: R-
- 2016: Reported data calibrated to 2010 and 2020 levels. Estimate of 77 percent changed from previous revision value of 97 percent. Estimate challenged by: R-
- 2015: Reported data calibrated to 2010 and 2020 levels. Estimate of 76 percent changed from previous revision value of 96 percent. Estimate challenged by: R-
- 2014: Reported data calibrated to 2010 and 2020 levels. Estimate of 74 percent changed from

Azerbaijan - HEPB3

previous revision value of 94 percent. Estimate challenged by: R-
2013: Reported data calibrated to 2010 and 2020 levels. National programme revised target population estimates during 2013. Estimate of 74 percent changed from previous revision value of 93 percent. Estimate challenged by: R-

Azerbaijan - Hib3

AZE - Hib3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	88	87	86	85	79	77	74	56	49	51	51	51
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	93	94	96	97	95	95	95	79	89	83	83	78
Administrative	93	94	96	97	95	95	95	79	89	83	83	78
Survey	-	-	-	-	-	-	-	51	47	-	-	-

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- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

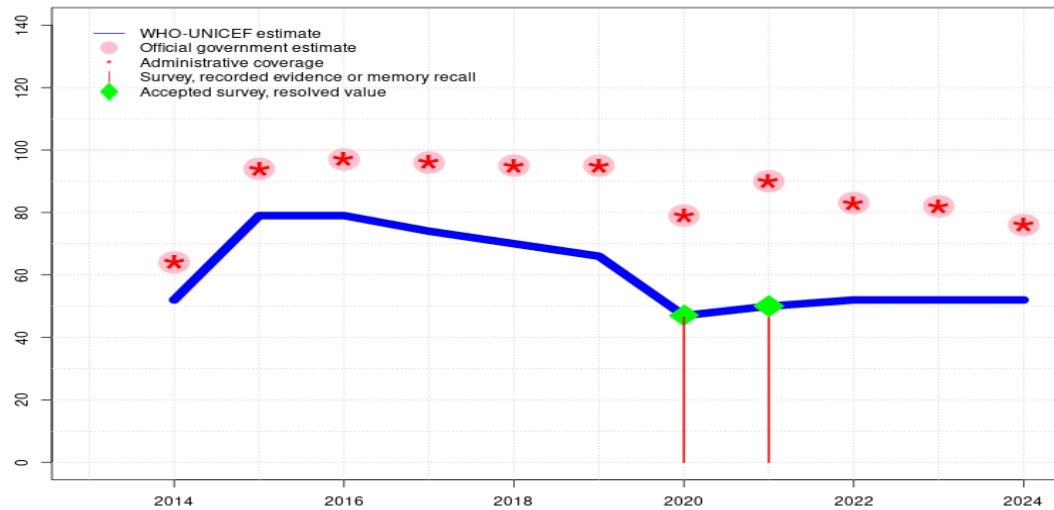
- 2024: Reported data calibrated to 2021 levels. Reported data excluded. Admin data reported for 2024 suggest a substantial proportion of delayed or catch-up vaccination, with about 12 percent third doses administered after the first year of life. Estimate challenged by: R-
- 2023: Reported data calibrated to 2021 levels. Reported data excluded. Unexplained decline of 25 percent in reported target population compared to 2022 that is accompanied by similar decline in reported number of doses administered. Estimate of 51 percent changed from previous revision value of 83 percent. Estimate challenged by: R-
- 2022: Reported data calibrated to 2021 levels. Unexplained increase of 11 percent in the reported target population between 2021 and 2022. Estimate of 51 percent changed from previous revision value of 83 percent. Estimate challenged by: D-R-
- 2021: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 49 percent based on 1 survey(s). Azerbaijan Multiple Indicator Cluster Survey 2023 record or recall results of 47 percent modified for recall bias to 49 percent based on 1st dose record or recall coverage of 63 percent, 1st dose record only coverage of 57 percent and 3rd dose record only coverage of 44 percent. Reported data excluded. A decline in reported number of doses administered between 2020 and 2021 is not reflected in reported coverage. Reported target population has declined 32 percent between 2016 and 2021. Estimate of 49 percent changed from previous revision value of 89 percent. Estimate challenged by: D-R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 56 percent based on 1 survey(s). Azerbaijan Multiple Indicator Cluster Survey 2023 record or recall results of 51 percent modified for recall bias to 56 percent based on 1st dose record or recall coverage of 64 percent, 1st dose record only coverage of 57 percent and 3rd dose record only coverage of 50 percent. WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Decline in reported coverage is unexplained by country but aligns with COVID-19 pandemic service disruptions. Estimate of 56 percent changed from previous revision value of 79 percent. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2012 and 2020 levels. Estimate of 74 percent changed from previous revision value of 94 percent. Estimate challenged by: R-S-
- 2018: Reported data calibrated to 2012 and 2020 levels. Estimate of 77 percent changed from previous revision value of 95 percent. Estimate challenged by: R-S-
- 2017: Reported data calibrated to 2012 and 2020 levels. Estimate of 79 percent changed from previous revision value of 95 percent. Estimate challenged by: R-
- 2016: Reported data calibrated to 2012 and 2020 levels. Estimate of 85 percent changed from previous revision value of 97 percent. Estimate challenged by: R-
- 2015: Reported data calibrated to 2012 and 2020 levels. Estimate of 86 percent changed from previous revision value of 96 percent. Estimate challenged by: R-
- 2014: Reported data calibrated to 2012 and 2020 levels. Estimate of 87 percent changed from

Azerbaijan - Hib3

previous revision value of 94 percent. Estimate challenged by: R-
2013: Reported data calibrated to 2012 and 2020 levels. National programme revised target population estimates during 2013. Estimate of 88 percent changed from previous revision value of 93 percent. Estimate challenged by: D-R-

Azerbaijan - PCV3

AZE - PCV3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	52	79	79	74	70	66	47	50	52	52	52
Estimate GoC	-	•	•	•	•	•	•	•	•	•	•	•
Official	-	64	94	97	96	95	95	79	90	83	82	76
Administrative	-	64	94	97	96	95	95	79	90	83	82	76
Survey	-	-	-	-	-	-	-	46	46	-	-	-

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

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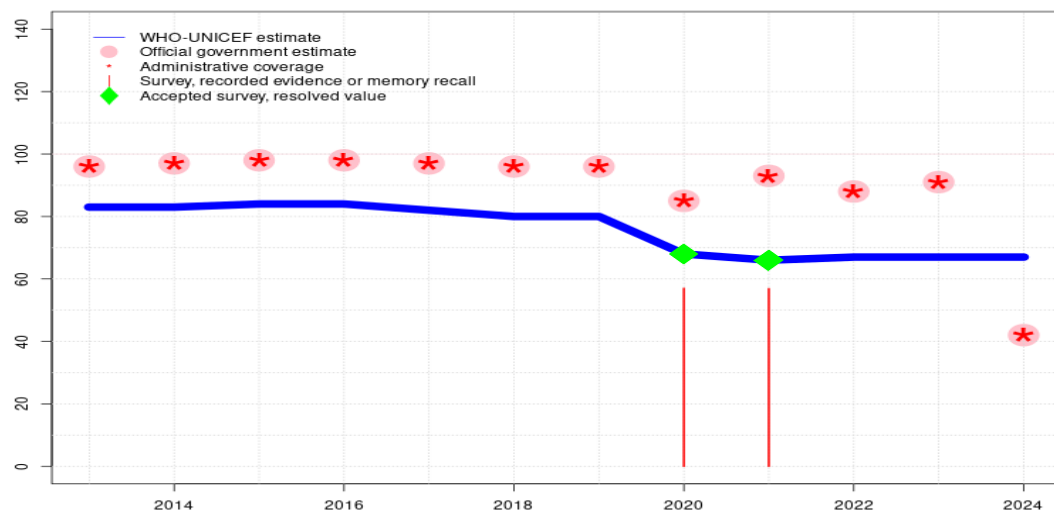
- 2024: Reported data calibrated to 2021 levels. Reported data excluded. Estimate challenged by: R-
- 2023: Reported data calibrated to 2021 levels. Reported data excluded. Unexplained decline of 25 percent in reported target population compared to 2022 that is accompanied by similar decline in reported number of doses administered. Estimate of 52 percent changed from previous revision value of 82 percent. Estimate challenged by: R-
- 2022: Reported data calibrated to 2021 levels. Unexplained increase of 11 percent in the reported target population between 2021 and 2022. Estimate of 52 percent changed from previous revision value of 83 percent. Estimate challenged by: D-R-
- 2021: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 50 percent based on 1 survey(s). Azerbaijan Multiple Indicator Cluster Survey 2023 record or recall results of 46 percent modified for recall bias to 50 percent based on 1st dose record or recall coverage of 68 percent, 1st dose record only coverage of 61 percent and 3rd dose record only coverage of 45 percent. Reported data excluded. A decline in reported number of doses administered between 2020 and 2021 is not reflected in reported coverage. Reported target population has declined 32 percent between 2016 and 2021. Estimate of 50 percent changed from previous revision value of 90 percent. Estimate challenged by: D-R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 47 percent based on 1 survey(s). Azerbaijan Multiple Indicator Cluster Survey 2023 record or recall results of 46 percent modified for recall bias to 47 percent based on 1st dose record or recall coverage of 62 percent, 1st dose record only coverage of 59 percent and 3rd dose record only coverage of 45 percent. WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Decline in reported coverage is unexplained by country but aligns with COVID-19 pandemic service disruptions. Estimate of 47 percent changed from previous revision value of 79 percent. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2015 and 2020 levels. Estimate of 66 percent changed from previous revision value of 95 percent. Estimate challenged by: D-R-S-
- 2018: Reported data calibrated to 2015 and 2020 levels. Estimate of 70 percent changed from previous revision value of 95 percent. Estimate challenged by: D-R-S-
- 2017: Reported data calibrated to 2015 and 2020 levels. Estimate of 74 percent changed from previous revision value of 96 percent. Estimate challenged by: R-
- 2016: Reported data calibrated to 2015 and 2020 levels. Estimate of 79 percent changed from previous revision value of 97 percent. Estimate challenged by: R-
- 2015: Estimate of 79 percent assigned by working group. Estimate based on DTP3 estimate. Estimate of 79 percent changed from previous revision value of 94 percent. GoC=Assigned by working group. GoC assigned to maintain consistency across vaccines.
- 2014: Estimate of 52 percent assigned by working group. Estimate is based on the relationship between reported number of doses for DTP3 and PCV3 applied to the DTP3 estimated

Azerbaijan - PCV3

coverage. Estimate of 52 percent changed from previous revision value of 64 percent.
Estimate challenged by: R-

Azerbaijan - POL3

AZE - POL3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	83	83	84	84	82	80	80	68	66	67	67	67
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	96	97	98	98	97	96	96	85	93	88	91	42
Administrative	96	97	98	98	97	96	96	85	93	88	91	42
Survey	-	-	-	-	-	-	-	57	57	-	-	-

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

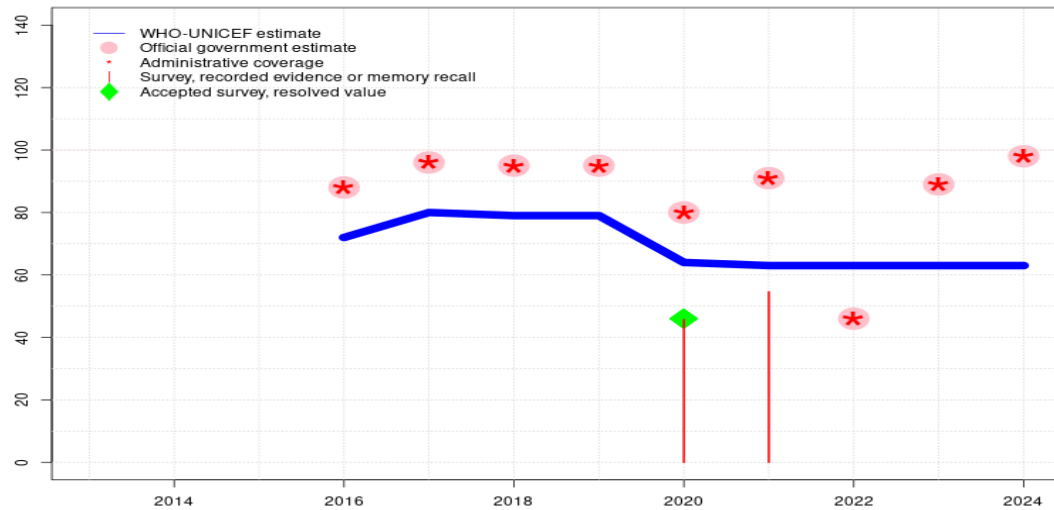
- 2024: Reported data calibrated to 2021 levels. Reported data excluded. Reported data excluded due to sudden change in coverage from 91 to 42 percent. In March 2024, Hexavalent vaccine was added to the Preventive Vaccination Calendar. Instead of 4 doses of OPV and 2 doses of IPV, 3 doses of IPV (as part of the Hexavalent vaccine) and 2 doses of OPV were included in the schedule. For this reason, the coverage of the 3rd dose of OPV declined. Estimate challenged by: D-R-
- 2023: Reported data calibrated to 2021 levels. Reported data excluded. Unexplained decline of 25 percent in reported target population compared to 2022 that is accompanied by similar declines in reported number of doses administered. In spite of decline in number of doses administered, reported coverage for the third dose of polio increases. Estimate of 67 percent changed from previous revision value of 91 percent. Estimate challenged by: R-
- 2022: Reported data calibrated to 2021 levels. Unexplained increase of 11 percent in the reported target population between 2021 and 2022. Estimate of 67 percent changed from previous revision value of 88 percent. Estimate challenged by: D-R-
- 2021: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 66 percent based on 1 survey(s). Azerbaijan Multiple Indicator Cluster Survey 2023 record or recall results of 57 percent modified for recall bias to 66 percent based on 1st dose record or recall coverage of 78 percent, 1st dose record only coverage of 64 percent and 3rd dose record only coverage of 54 percent. Reported data excluded. A decline in reported number of doses administered between 2020 and 2021 is not reflected in reported coverage. Reported target population has declined 32 percent between 2016 and 2021. Estimate of 66 percent changed from previous revision value of 93 percent. Estimate challenged by: R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 68 percent based on 1 survey(s). Azerbaijan Multiple Indicator Cluster Survey 2023 record or recall results of 57 percent modified for recall bias to 68 percent based on 1st dose record or recall coverage of 76 percent, 1st dose record only coverage of 63 percent and 3rd dose record only coverage of 56 percent. WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Decline in reported coverage is unexplained by country but aligns with COVID-19 pandemic service disruptions. Estimate of 68 percent changed from previous revision value of 85 percent. Estimate challenged by: R-
- 2019: Reported data calibrated to 2010 and 2020 levels. Estimate of 80 percent changed from previous revision value of 96 percent. Estimate challenged by: R-S-
- 2018: Reported data calibrated to 2010 and 2020 levels. Estimate of 80 percent changed from previous revision value of 96 percent. Estimate challenged by: R-S-
- 2017: Reported data calibrated to 2010 and 2020 levels. Estimate of 82 percent changed from previous revision value of 97 percent. Estimate challenged by: R-
- 2016: Reported data calibrated to 2010 and 2020 levels. Estimate of 84 percent changed from

Azerbaijan - POL3

previous revision value of 98 percent. Estimate challenged by: R-
2015: Reported data calibrated to 2010 and 2020 levels. Estimate of 84 percent changed from
previous revision value of 98 percent. Estimate challenged by: R-
2014: Reported data calibrated to 2010 and 2020 levels. Estimate of 83 percent changed from
previous revision value of 97 percent. Estimate challenged by: R-
2013: Reported data calibrated to 2010 and 2020 levels. National programme revised target pop-
ulation estimates during 2013. Estimate of 83 percent changed from previous revision
value of 96 percent. Estimate challenged by: R-

Azerbaijan - IPV1

AZE - IPV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	72	80	79	79	64	63	63	63	63
Estimate GoC	-	-	-	•	•	•	•	•	•	•	•	•
Official	-	-	-	88	96	95	95	80	91	46	89	98
Administrative	-	-	-	88	96	95	95	80	91	46	89	98
Survey	-	-	-	-	-	-	-	46	55	-	-	-

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

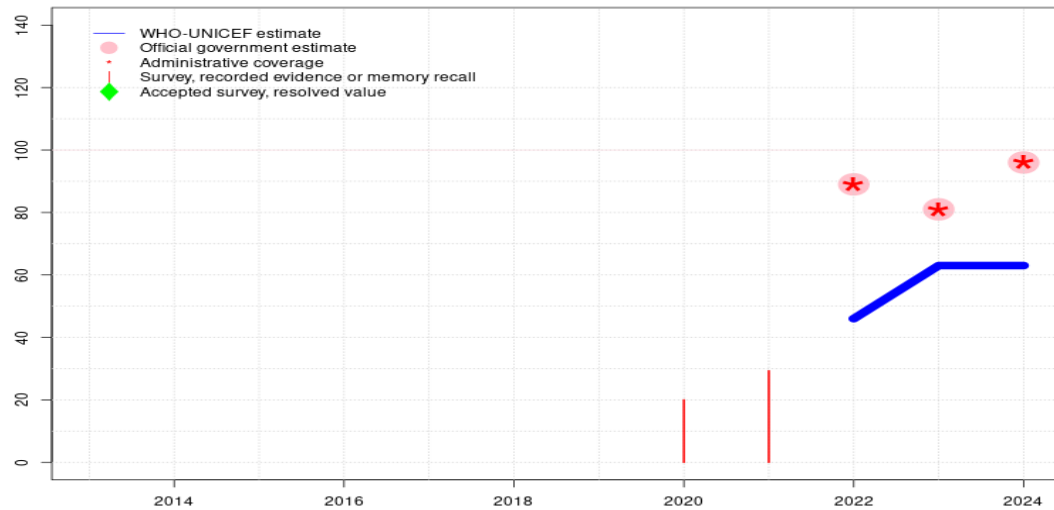
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Reported data calibrated to 2021 levels. Reported data excluded. In 2024 country started using DTaP-IPV-Hib-HepB combination vaccine. Estimate challenged by: R-
- 2023: Reported data calibrated to 2021 levels. Reported data excluded. Unexplained decline of 25 percent in reported target population compared to 2022. Estimate of 63 percent changed from previous revision value of 89 percent. Estimate challenged by: R-
- 2022: Reported data calibrated to 2021 levels. Reported data excluded due to decline in reported coverage from 91 percent to 46 percent with increase to 89 percent. Unexplained increase of 11 percent in the reported target population between 2021 and 2022. Estimate of 63 percent changed from previous revision value of 90 percent. Estimate challenged by: D-R-S-
- 2021: Estimate of 63 percent assigned by working group. Survey coverage estimate corrected for recall bias based on the difference between DTP1 and DTP3 in admin data applied to survey results by card or recall. Azerbaijan Multiple Indicator Cluster Survey 2023 results ignored by working group. Reported data excluded. Reported data excluded due to an increase from 80 percent to 91 percent with decrease to 46 percent. A decline in reported number of doses administered between 2020 and 2021 is not reflected in reported coverage. Reported target population has declined 32 percent between 2016 and 2021. Estimate of 63 percent changed from previous revision value of 91 percent. Estimate challenged by: R-S-
- 2020: Estimate of 64 percent assigned by working group. Based on survey results for DTP1. WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Decline in reported coverage is unexplained by country but aligns with COVID-19 pandemic service disruptions. Estimate of 64 percent changed from previous revision value of 80 percent. Estimate challenged by: R-S-
- 2019: Reported data calibrated to 2020 levels. Estimate of 79 percent changed from previous revision value of 95 percent. Estimate challenged by: R-S-
- 2018: Reported data calibrated to 2020 levels. Estimate of 79 percent changed from previous revision value of 95 percent. Estimate challenged by: R-S-
- 2017: Reported data calibrated to 2020 levels. Estimate of 80 percent changed from previous revision value of 96 percent. Estimate challenged by: R-
- 2016: Reported data calibrated to 2020 levels. Estimate of 72 percent changed from previous revision value of 88 percent. Estimate challenged by: R-

Azerbaijan - IPV2

AZE - IPV2



Description:

- 2024: Exceptionally based on IPV1 estimated coverage. In 2024 country started using DTaP-IPV-Hib-HepB combination vaccine. Reported data excluded. Estimate challenged by: R-
- 2023: Exceptionally based on IPV1 estimated coverage. Reported data excluded. Unexplained decline of 25 percent in reported target population compared to 2022 that is accompanied by similar declines in reported number of doses administered for most antigens. Estimate of 63 percent changed from previous revision value of 81 percent. Estimate challenged by: R-
- 2022: Second dose of inactivated polio vaccine introduced in June 2022 and recommended at 6 months of age. Estimated coverage reflects mid-year introduction. Estimate challenged by: D-R-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	-	-	-	46	63	63
Estimate GoC	-	-	-	-	-	-	-	-	-	●	●	●
Official	-	-	-	-	-	-	-	-	-	89	81	96
Administrative	-	-	-	-	-	-	-	-	-	89	81	96
Survey	-	-	-	-	-	-	-	20	29	-	-	-

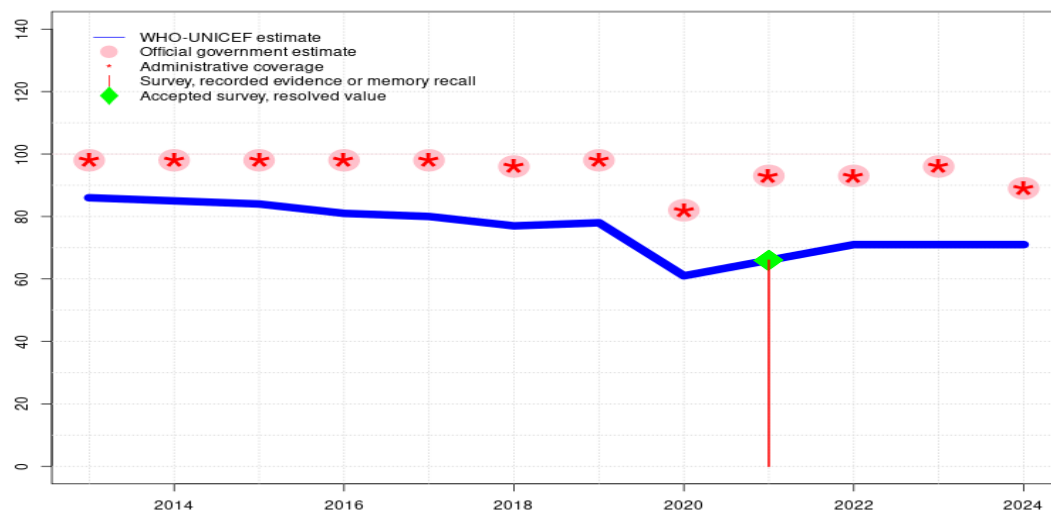
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Azerbaijan - MCV1

AZE - MCV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	86	85	84	81	80	77	78	61	66	71	71	71
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	98	98	98	98	98	96	98	82	93	93	96	89
Administrative	98	98	98	98	98	96	98	82	93	93	96	89
Survey	-	-	-	-	-	-	-	-	66	-	-	-

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

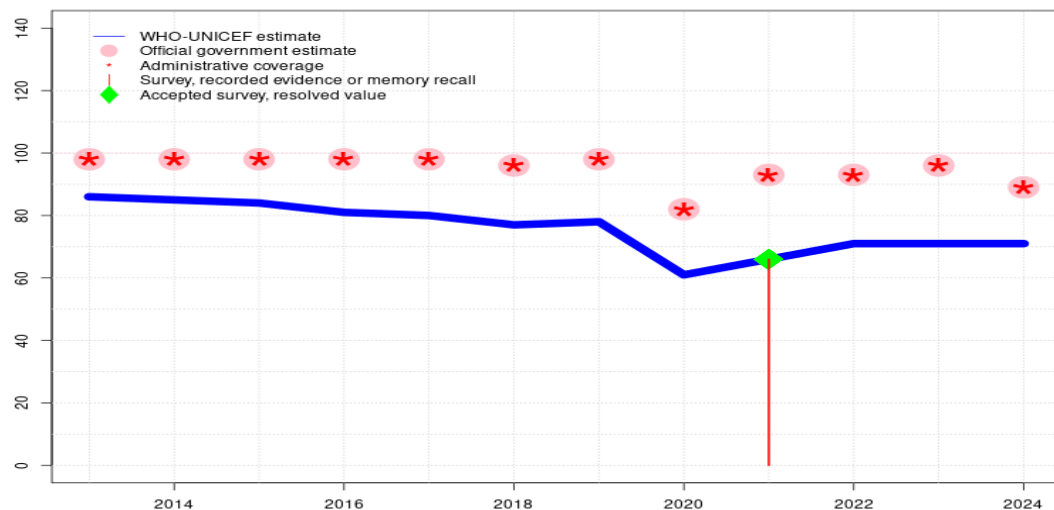
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Reported data calibrated to 2021 levels. Reported data excluded. Estimate challenged by: R-
- 2023: Reported data calibrated to 2021 levels. Reported data excluded. Reported coverage levels increase despite unexplained declines in reported target population size and number of doses administered. Estimate of 71 percent changed from previous revision value of 96 percent. Estimate challenged by: R-
- 2022: Reported data calibrated to 2021 levels. Trend in estimated coverage reflects the trend in the reported coverage between 2020 and 2022. Unexplained increase of 11 percent in the reported target population between 2021 and 2022. Estimate of 71 percent changed from previous revision value of 93 percent. Estimate challenged by: R-
- 2021: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 66 percent based on 1 survey(s). Reported data excluded. Increase in reported coverage aligns with recovery from COVID-19 pandemic service disruptions. Estimate of 66 percent changed from previous revision value of 93 percent. Estimate challenged by: D-R-
- 2020: Reported data calibrated to 2010 and 2021 levels. WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Decline in reported coverage is unexplained by country but aligns with COVID-19 pandemic service disruptions. Estimate of 61 percent changed from previous revision value of 82 percent. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2010 and 2021 levels. Estimate of 78 percent changed from previous revision value of 98 percent. Estimate challenged by: R-S-
- 2018: Reported data calibrated to 2010 and 2021 levels. Estimate of 77 percent changed from previous revision value of 96 percent. Estimate challenged by: R-
- 2017: Reported data calibrated to 2010 and 2021 levels. Estimate of 80 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-
- 2016: Reported data calibrated to 2010 and 2021 levels. Estimate of 81 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2015: Reported data calibrated to 2010 and 2021 levels. Estimate of 84 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2014: Reported data calibrated to 2010 and 2021 levels. Estimate of 85 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2013: Reported data calibrated to 2010 and 2021 levels. National programme revised target population estimates during 2013. Estimate of 86 percent changed from previous revision value of 98 percent. Estimate challenged by: R-

Azerbaijan - RCV1

AZE - RCV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	86	85	84	81	80	77	78	61	66	71	71	71
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	98	98	98	98	98	96	98	82	93	93	96	89
Administrative	98	98	98	98	98	96	98	82	93	93	96	89
Survey	-	-	-	-	-	-	-	-	66	-	-	-

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

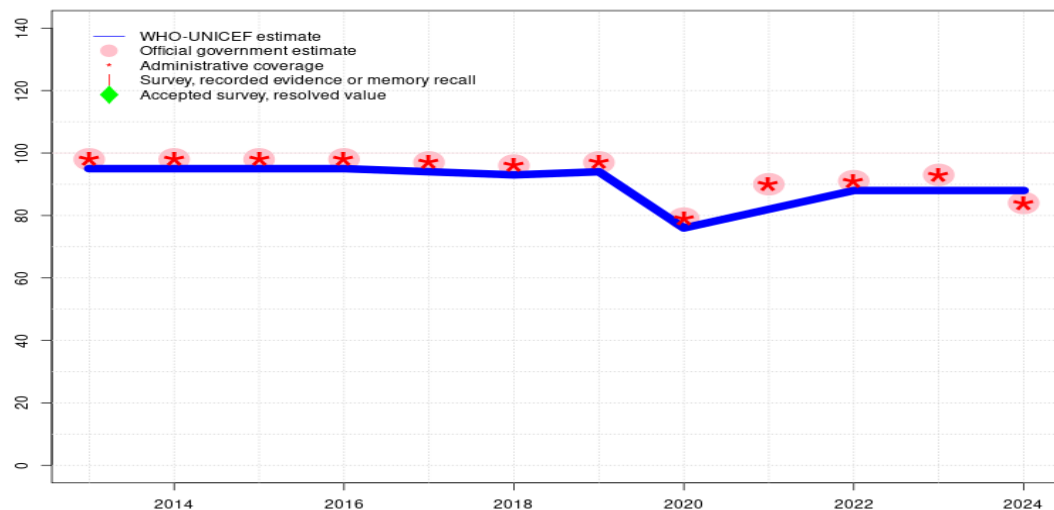
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate based on estimated MCV1. Reported data excluded. Estimate challenged by: R-
- 2023: Estimate based on estimated MCV1. Reported data excluded. Estimate of 71 percent changed from previous revision value of 96 percent. Estimate challenged by: R-
- 2022: Estimate based on estimated MCV1. Estimate of 71 percent changed from previous revision value of 93 percent. Estimate challenged by: R-
- 2021: Estimate based on estimated MCV1. Reported data excluded. Estimate of 66 percent changed from previous revision value of 93 percent. Estimate challenged by: D-R-
- 2020: Estimate based on estimated MCV1. Reported data excluded due to decline in reported coverage from 98 percent to 82 percent with increase to 93 percent. WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Estimate of 61 percent changed from previous revision value of 82 percent. Estimate challenged by: D-R-
- 2019: Estimate based on estimated MCV1. Estimate of 78 percent changed from previous revision value of 98 percent. Estimate challenged by: R-S-
- 2018: Estimate based on estimated MCV1. Estimate of 77 percent changed from previous revision value of 96 percent. Estimate challenged by: R-
- 2017: Estimate based on estimated MCV1. Estimate of 80 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-
- 2016: Estimate based on estimated MCV1. Estimate of 81 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2015: Estimate based on estimated MCV1. Estimate of 84 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2014: Estimate based on estimated MCV1. Estimate of 85 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2013: Estimate based on estimated MCV1. National programme revised target population estimates during 2013. Estimate of 86 percent changed from previous revision value of 98 percent. Estimate challenged by: R-

Azerbaijan - MCV2

AZE - MCV2



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	95	95	95	95	94	93	94	76	82	88	88	88
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	98	98	98	98	97	96	97	79	90	91	93	84
Administrative	98	98	98	98	97	96	97	79	90	91	93	84
Survey	-	-	-	-	-	-	-	-	-	-	-	-

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Reported data calibrated to 2012 levels. Reported data excluded. Estimate challenged by: R-
- 2023: Reported data calibrated to 2012 levels. Reported data excluded. Reported coverage levels increase despite unexplained declines in reported target population size and number of doses administered. Estimate of 88 percent changed from previous revision value of 93 percent. Estimate challenged by: R-
- 2022: Reported data calibrated to 2012 levels. Unexplained decrease of 12 percent in the reported target population between 2021 and 2022. Estimate of 88 percent changed from previous revision value of 91 percent. Estimate challenged by: R-
- 2021: Reported data calibrated to 2012 levels. Reported data excluded. Increase in reported coverage aligns with recovery from COVID-19 pandemic service disruptions. Estimate of 82 percent changed from previous revision value of 90 percent. Estimate challenged by: D-R-
- 2020: Reported data calibrated to 2012 levels. WHO and UNICEF are aware of a vaccination coverage surveys conducted in 2018 and 2019. However, available information suggests use of a convenience sample of districts and insufficient information on sampling of children. Decline in reported coverage is unexplained by country but aligns with COVID-19 pandemic service disruptions. Estimate of 76 percent changed from previous revision value of 79 percent. Estimate challenged by: D-R-
- 2019: Reported data calibrated to 2012 levels. Estimate of 94 percent changed from previous revision value of 97 percent. Estimate challenged by: R-
- 2018: Reported data calibrated to 2012 levels. Estimate of 93 percent changed from previous revision value of 96 percent. Estimate challenged by: R-
- 2017: Reported data calibrated to 2012 levels. Estimate of 94 percent changed from previous revision value of 97 percent. Estimate challenged by: R-
- 2016: Reported data calibrated to 2012 levels. Estimate of 95 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2012 levels. Estimate of 95 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2012 levels. Estimate of 95 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2012 levels. National programme revised target population estimates during 2013. Estimate of 95 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-

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NOTE A survey to measure vaccination coverage for infants (i.e., children aged 0-11 months) will sample children aged 12-23 months at the time of survey to capture the youngest annual cohort of children who should have completed the vaccination schedule. Because WUENIC are for infant vaccinations, survey data in this report are presented to reflect the birth year of the youngest survey cohort. For example, results for a survey conducted during December 2020 among children aged 12-23 months at the time of the survey reflect the immunization experience of children born in 2019. Depending on the timing of survey field work, results may reflect the immunization experience of children born and vaccinated one or two years prior to the survey field work.

The survey results below present vaccination coverage estimates by antigen, confirmation method, and child's age at the time of the survey. Coverage based on **Recall** reflects information based upon a mother's or caregiver's memory. Coverage based on **Record** reflects information drawn from documented vaccination history in home- and/or facility-based records. **Evidence seen** reflects the percentage of children in the sample with documented evidence of vaccination history seen by the survey team.

2021 Azerbaijan Multiple Indicator Cluster Survey 2023

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	12.3	12-23 m	457	89
BCG	Record	78.5	12-23 m	457	89
BCG	Record or Recall	90.8	12-23 m	457	89
BCG	Record or Recall<12m	90.7	12-23 m	457	89
BCG	Record1	0.4	12-23 m	457	89
BCG	Record2	78.1	12-23 m	457	89
DTP1	Recall	6.2	12-23 m	457	89
DTP1	Record	56.6	12-23 m	457	89
DTP1	Record or Recall	62.8	12-23 m	457	89
DTP1	Record or Recall<12m	58.3	12-23 m	457	89
DTP1	Record1	0.2	12-23 m	457	89
DTP1	Record2	56.4	12-23 m	457	89
DTP3	Recall	2.2	12-23 m	457	89
DTP3	Record	44.3	12-23 m	457	89
DTP3	Record or Recall	46.6	12-23 m	457	89
DTP3	Record or Recall<12m	42.9	12-23 m	457	89
DTP3	Record1	0.3	12-23 m	457	89
DTP3	Record2	44	12-23 m	457	89
HEPB1	Recall	6.2	12-23 m	457	89
HEPB1	Record	56.6	12-23 m	457	89
HEPB1	Record or Recall	62.8	12-23 m	457	89
HEPB1	Record or Recall<12m	58.3	12-23 m	457	89
HEPB1	Record1	0.2	12-23 m	457	89
HEPB1	Record2	56.4	12-23 m	457	89
HEPB3	Recall	2.2	12-23 m	457	89
HEPB3	Record	44.3	12-23 m	457	89
HEPB3	Record or Recall	46.6	12-23 m	457	89
HEPB3	Record or Recall<12m	42.9	12-23 m	457	89
HEPB3	Record1	0.3	12-23 m	457	89
HEPB3	Record2	44	12-23 m	457	89
HEPBB	Recall	14.5	12-23 m	457	89
HEPBB	Record	71.4	12-23 m	457	89
HEPBB	Record or Recall	85.9	12-23 m	457	89
HEPBB	Record or Recall<12m	85.9	12-23 m	457	89
HEPBB	Record1	0	12-23 m	457	89
HEPBB	Record2	71.4	12-23 m	457	89
HIB1	Recall	6.2	12-23 m	457	89
HIB1	Record	56.6	12-23 m	457	89
HIB1	Record or Recall	62.8	12-23 m	457	89
HIB1	Record or Recall<12m	58.3	12-23 m	457	89
HIB1	Record1	0.2	12-23 m	457	89
HIB1	Record2	56.4	12-23 m	457	89
HIB3	Recall	2.2	12-23 m	457	89
HIB3	Record	44.3	12-23 m	457	89
HIB3	Record or Recall	46.6	12-23 m	457	89
HIB3	Record or Recall<12m	42.9	12-23 m	457	89
HIB3	Record1	0.3	12-23 m	457	89
HIB3	Record2	44	12-23 m	457	89
IPV1	Recall	16.1	12-23 m	457	89
IPV1	Record	38.4	12-23 m	457	89
IPV1	Record or Recall	54.6	12-23 m	457	89
IPV1	Record or Recall<12m	50.9	12-23 m	457	89
IPV1	Record1	0.9	12-23 m	457	89
IPV1	Record2	37.5	12-23 m	457	89
IPV2	Recall	8.6	12-23 m	457	89
IPV2	Record	20.7	12-23 m	457	89
IPV2	Record or Recall	29.3	12-23 m	457	89
IPV2	Record or Recall<12m	26.8	12-23 m	457	89
IPV2	Record1	1.5	12-23 m	457	89

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IPV2	Record2	19.2	12-23 m	457	89						
MCV1	Recall	11.5	24-35 m	479	86	Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
MCV1	Record	54.4	24-35 m	479	86	BCG	Recall	16.4	24-35 m	479	86
MCV1	Record or Recall	66	24-35 m	479	86	BCG	Record	74.8	24-35 m	479	86
MCV1	Record or Recall<12m	62	24-35 m	479	86	BCG	Record or Recall	91.1	24-35 m	479	86
MCV1	Record1	0.5	24-35 m	479	86	BCG	Record or Recall<12m	90.4	24-35 m	479	86
MCV1	Record2	53.9	24-35 m	479	86	BCG	Record1	1.3	24-35 m	479	86
PCV1	Recall	6.8	12-23 m	457	89	BCG	Record2	73.5	24-35 m	479	86
PCV1	Record	61	12-23 m	457	89	DTP1	Recall	6.4	24-35 m	479	86
PCV1	Record or Recall	67.9	12-23 m	457	89	DTP1	Record	57.4	24-35 m	479	86
PCV1	Record or Recall<12m	65.8	12-23 m	457	89	DTP1	Record or Recall	63.9	24-35 m	479	86
PCV1	Record1	0	12-23 m	457	89	DTP1	Record or Recall<12m	55.2	24-35 m	479	86
PCV1	Record2	61	12-23 m	457	89	DTP1	Record1	0.8	24-35 m	479	86
PCV3	Recall	1.5	12-23 m	457	89	DTP1	Record2	56.6	24-35 m	479	86
PCV3	Record	44.9	12-23 m	457	89	DTP3	Recall	1	24-35 m	479	86
PCV3	Record or Recall	46.4	12-23 m	457	89	DTP3	Record	49.5	24-35 m	479	86
PCV3	Record or Recall<12m	41.2	12-23 m	457	89	DTP3	Record or Recall	50.5	24-35 m	479	86
PCV3	Record1	0.3	12-23 m	457	89	DTP3	Record or Recall<12m	38.9	24-35 m	479	86
PCV3	Record2	44.6	12-23 m	457	89	DTP3	Record1	0.4	24-35 m	479	86
POL1	Recall	14.3	12-23 m	457	89	DTP3	Record2	49.1	24-35 m	479	86
POL1	Record	63.6	12-23 m	457	89	HEPB1	Recall	6.4	24-35 m	479	86
POL1	Record or Recall	77.9	12-23 m	457	89	HEPB1	Record	57.4	24-35 m	479	86
POL1	Record or Recall<12m	75.7	12-23 m	457	89	HEPB1	Record or Recall	63.9	24-35 m	479	86
POL1	Record1	0.2	12-23 m	457	89	HEPB1	Record or Recall<12m	55.2	24-35 m	479	86
POL1	Record2	63.4	12-23 m	457	89	HEPB1	Record1	0.8	24-35 m	479	86
POL3	Recall	2.8	12-23 m	457	89	HEPB1	Record2	56.6	24-35 m	479	86
POL3	Record	54.1	12-23 m	457	89	HEPB3	Recall	1	24-35 m	479	86
POL3	Record or Recall	56.9	12-23 m	457	89	HEPB3	Record	49.5	24-35 m	479	86
POL3	Record or Recall<12m	50.5	12-23 m	457	89	HEPB3	Record or Recall	50.5	24-35 m	479	86
POL3	Record1	0.4	12-23 m	457	89	HEPB3	Record or Recall<12m	38.9	24-35 m	479	86
POL3	Record2	53.7	12-23 m	457	89	HEPB3	Record1	0.4	24-35 m	479	86
RCV1	Recall	11.5	24-35 m	479	86	HEPB3	Record2	49.1	24-35 m	479	86
RCV1	Record	54.4	24-35 m	479	86	HEPBB	Recall	8.6	24-35 m	479	86
RCV1	Record or Recall	66	24-35 m	479	86	HEPBB	Record	76.3	24-35 m	479	86
RCV1	Record or Recall<12m	62	24-35 m	479	86	HEPBB	Record or Recall	84.9	24-35 m	479	86
RCV1	Record1	0.5	24-35 m	479	86	HEPBB	Record or Recall<12m	84.9	24-35 m	479	86
RCV1	Record2	53.9	24-35 m	479	86	HEPBB	Record1	0.3	24-35 m	479	86
						HEPBB	Record2	76	24-35 m	479	86
						HIB1	Recall	6.4	24-35 m	479	86
						HIB1	Record	57.4	24-35 m	479	86

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HIB1	Record or Recall	63.9	24-35 m	479	86
HIB1	Record or Recall<12m	55.2	24-35 m	479	86
HIB1	Record1	0.8	24-35 m	479	86
HIB1	Record2	56.6	24-35 m	479	86
HIB3	Recall	1	24-35 m	479	86
HIB3	Record	49.5	24-35 m	479	86
HIB3	Record or Recall	50.5	24-35 m	479	86
HIB3	Record or Recall<12m	38.9	24-35 m	479	86
HIB3	Record1	0.4	24-35 m	479	86
HIB3	Record2	49.1	24-35 m	479	86
IPV1	Recall	11.4	24-35 m	479	86
IPV1	Record	34.3	24-35 m	479	86
IPV1	Record or Recall	45.7	24-35 m	479	86
IPV1	Record or Recall<12m	38.2	24-35 m	479	86
IPV1	Record1	1.1	24-35 m	479	86
IPV1	Record2	33.2	24-35 m	479	86
IPV2	Recall	6.7	24-35 m	479	86
IPV2	Record	13.3	24-35 m	479	86
IPV2	Record or Recall	20	24-35 m	479	86
IPV2	Record or Recall<12m	15.5	24-35 m	479	86
IPV2	Record1	0.4	24-35 m	479	86
IPV2	Record2	12.9	24-35 m	479	86
PCV1	Recall	2.9	24-35 m	479	86
PCV1	Record	59.1	24-35 m	479	86
PCV1	Record or Recall	61.9	24-35 m	479	86
PCV1	Record or Recall<12m	56.7	24-35 m	479	86
PCV1	Record1	1.2	24-35 m	479	86
PCV1	Record2	57.9	24-35 m	479	86
PCV3	Recall	1.5	24-35 m	479	86
PCV3	Record	44.9	24-35 m	479	86
PCV3	Record or Recall	46.4	24-35 m	479	86
PCV3	Record or Recall<12m	36	24-35 m	479	86
PCV3	Record1	0.8	24-35 m	479	86
PCV3	Record2	44.1	24-35 m	479	86
POL1	Recall	13	24-35 m	479	86
POL1	Record	62.7	24-35 m	479	86
POL1	Record or Recall	75.7	24-35 m	479	86
POL1	Record or Recall<12m	70.7	24-35 m	479	86
POL1	Record1	0.7	24-35 m	479	86
POL1	Record2	62	24-35 m	479	86

POL3	Recall	0.8	24-35 m	479	86
POL3	Record	56.2	24-35 m	479	86
POL3	Record or Recall	57	24-35 m	479	86
POL3	Record or Recall<12m	45.5	24-35 m	479	86
POL3	Record1	1.3	24-35 m	479	86
POL3	Record2	54.9	24-35 m	479	86

2010 Azerbaijan Demographic and Health Survey 2011

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall	97.9	18-29 m	480	98
DTP1	Record or Recall	93.5	18-29 m	480	98
DTP3	Record or Recall	80.7	18-29 m	480	98
HEPB1	Record or Recall	95.3	18-29 m	480	98
HEPB3	Record or Recall	80.2	18-29 m	480	98
MCV1	Record or Recall	88.6	18-29 m	480	98
POL1	Record or Recall	95.2	18-29 m	480	98
POL3	Record or Recall	85.2	18-29 m	480	98

2005 Azerbaijan Demographic and Health Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	13.7	18-29 m	467	72
BCG	Record	67.9	18-29 m	467	72
BCG	Record or Recall	81.6	18-29 m	467	72
BCG	Record or Recall<18m	80.3	18-29 m	467	72
DTP1	Recall	10.5	18-29 m	467	72
DTP1	Record	70.8	18-29 m	467	72
DTP1	Record or Recall	81.3	18-29 m	467	72
DTP1	Record or Recall<18m	80.5	18-29 m	467	72
DTP3	Recall	4.8	18-29 m	467	72
DTP3	Record	65.9	18-29 m	467	72
DTP3	Record or Recall	70.7	18-29 m	467	72
DTP3	Record or Recall<18m	65.2	18-29 m	467	72
HEPB1	Recall	7.2	18-29 m	467	72
HEPB1	Record	64.1	18-29 m	467	72
HEPB1	Record or Recall	71.3	18-29 m	467	72

HEPB1	Record or Recall<18m	71.3	18-29 m	467	72
HEPB3	Recall	1.3	18-29 m	467	72
HEPB3	Record	44.4	18-29 m	467	72
HEPB3	Record or Recall	45.7	18-29 m	467	72
HEPB3	Record or Recall<18m	44	18-29 m	467	72
MCV1	Recall	9.1	18-29 m	467	72
MCV1	Record	58.2	18-29 m	467	72
MCV1	Record or Recall	67.3	18-29 m	467	72
MCV1	Record or Recall<18m	61.1	18-29 m	467	72
POL1	Recall	10.7	18-29 m	467	72
POL1	Record	71.4	18-29 m	467	72
POL1	Record or Recall	82.1	18-29 m	467	72
POL1	Record or Recall<18m	81.3	18-29 m	467	72
POL3	Recall	4.3	18-29 m	467	72

POL3	Record	68.1	18-29 m	467	72
POL3	Record or Recall	72.4	18-29 m	467	72
POL3	Record or Recall<18m	68.2	18-29 m	467	72

1998 National Immunization Programme Evaluation Azerbaijan, 1999

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall	94.6	15-26 m	2145	-
DTP3	Record or Recall	94.1	15-26 m	2145	-
MCV1	Record or Recall	88.4	15-26 m	2145	-
POL3	Record or Recall	97	15-26 m	2145	-

Further information and estimates for previous years are available at:
<https://data.unicef.org/topic/child-health/immunization/>
<https://immunizationdata.who.int/listing.html>